

# Supporting Information for Advanced Electrodes for Solid Acid Fuel Cells by Platinum Deposition on $\text{CsH}_2\text{PO}_4$

Alexander B. Papandrew,<sup>\*,†,||</sup> Calum R.I. Chisholm,<sup>†</sup> Ramez A. Elgammal,<sup>‡</sup>  
Mustafa M. Özer,<sup>¶</sup> and Strahinja K. Zecevic<sup>§</sup>

*Division of Engineering and Applied Science, California Institute of Technology, Pasadena,  
California 91125, Department of Chemistry, University of Tennessee, Knoxville, Tennessee  
37996, Materials Science and Technology Division, Oak Ridge National Laboratory, Oak Ridge,  
Tennessee 37831, and LiOx Inc, Pasadena, California 91106*

E-mail: apapandrew@utk.edu

---

<sup>\*</sup>To whom correspondence should be addressed

<sup>†</sup>Division of Engineering and Applied Science, California Institute of Technology, Pasadena, California 91125

<sup>‡</sup>Department of Chemistry, University of Tennessee, Knoxville, Tennessee 37996

<sup>¶</sup>Materials Science and Technology Division, Oak Ridge National Laboratory, Oak Ridge, Tennessee 37831

<sup>§</sup>LiOx Inc, Pasadena, California 91106

<sup>||</sup>current address: Department of Chemical and Biomolecular Engineering, University of Tennessee, Knoxville, Tennessee 37996

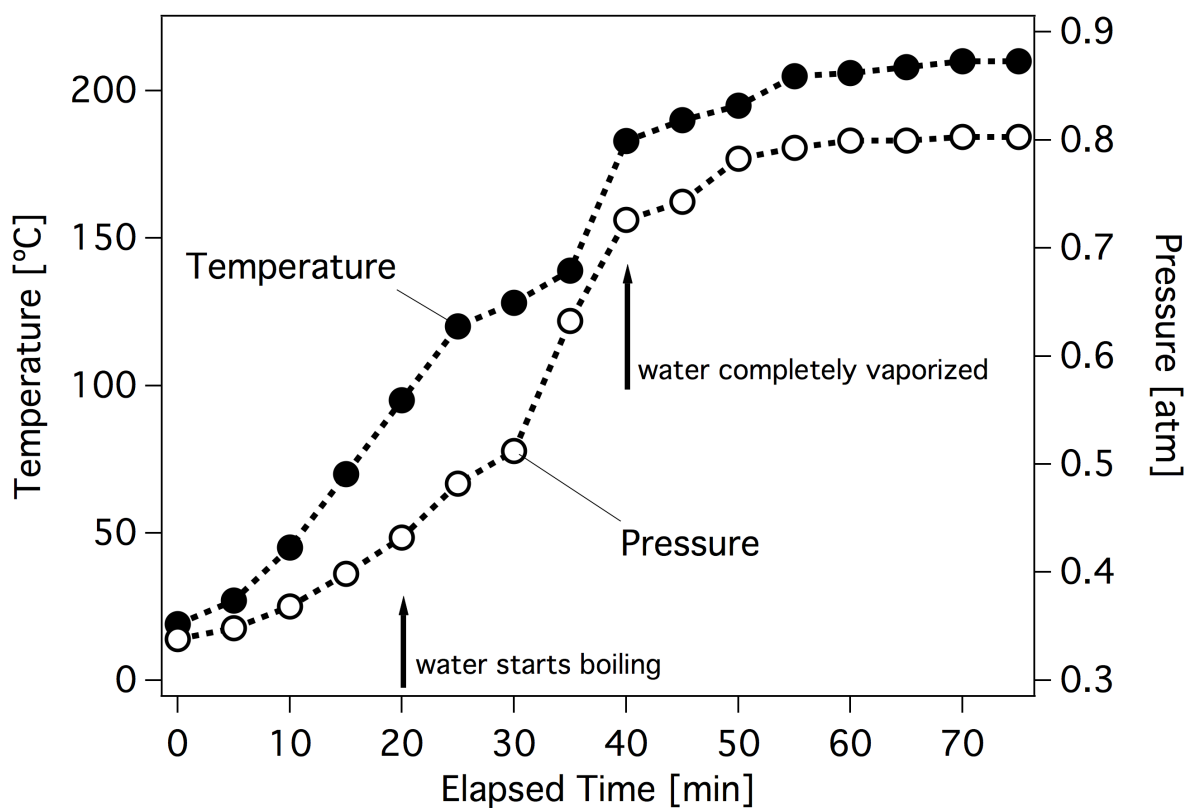


Figure 1: Temperature and pressure of vacuum oven before reaching equilibrium during deposition of Pt on  $\text{CsH}_2\text{PO}_4$ . Temperature was measured with a bimetallic strip thermometer; pressure was measured with a Bourdon tube. The oven was initially filled with 0.3 bar of dry  $\text{N}_2$  and 2.3 mL of liquid DI  $\text{H}_2\text{O}$ .